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## APPENDIX "D"

## THREE AND SINGLE LETTER AMINO ACID ABBREVIATIONS

|    | ALANINE       | ALA | A |
|----|---------------|-----|---|
| 5  | ARGININE      | ARG | R |
|    | ASPARAGINE    | ASN | N |
|    | ASPARTIC ACID | ASP | D |
|    | CYSTEINE      | CYS | С |
| 10 | GLUTAMIC ACID | GLU | E |
|    | GLUTAMINE     | GLN | Q |
|    | GLYCINE       | GLY | G |
|    | HITIDINE      | HIS | Н |
|    | ISOLEUCINE    | ILE | I |
|    | LEUCINE       | LEU | L |
| 15 | LYSINE        | LYS | K |
|    | METHIONINE    | MET | M |
|    | PHENYLALANINE | PHE | F |
|    | PROLINE       | PRO | P |
| 20 | SERINE        | SER | S |
|    | THREONINE     | THR | Т |
|    | TRYPTOPHAN    | TRP | W |
|    | TYROSINE      | TYR | Y |
|    | VALINE        | VAL | V |